

A Method for Increasing the Efficiency of Assembling Non-detachable Products by Plastic Deformation Using Artificial Intelligence

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Abstract

© Published under licence by IOP Publishing Ltd. The way of achievement of the given parameters of quality of assembling of one-piece products, such as accuracy of geometrical sizes of a product and durability of non-detachable joints at stages of technological preparation and management of technological process with application of an artificial intellect is studied.

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References

- [1] Valiev A M, Shibakov V G and Pankratov D L 2016 Design and manufacture of a composite punching tool Russian Engineering Research 36 146-148 <https://doi.org/10.3103/S1068798X16020246>.
- [2] Valiev A M, Shibakov V G and Pankratov D L 2016 Automated control system for the assembly of a composite punching tool Russian Engineering Research 36 142-145 <https://doi.org/10.3103/S1068798X16020234>.
- [3] Shaparev A V and Savin I A 2017 Calculation of Joint Plastic Deformation to Form Metal Compound in Cold Condition Solid State Phenomena 265 313-18 DOI:10.4028/www.scientific.net/SSP.265.313